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SECTION TO STATE (DO 20 COUNTY)  OF STREET (Manager Analys)  OF STREET (Manager Analys	II. SITE NAME AND LOCATION			
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ODERCTIONS TO SITE (Stating from manufal public road)  III. RESPONSIBLE PARTIES  17. OVEREIT (Photograph of the parties)  18. TO COMMERCY (Processing)  19. OVEREIT (Photograph of the parties)  19. OVER	ORUG TWIK	/(J)	12 (400)44 (2)	
III. RESPONSABLE PARTIES  37 OWNER IN TOWNS AND THE STATE OF 2P CODE  38 STREET (BLUMPAS, MARINE, MARINER)  39 STREET (BLUMPAS, MARINE, MARINER)  39 STREET (BLUMPAS, MARINE, MARINER)  30 STREET (BLUMPAS, MARINE, MARINER)  31 STREET (BLUMPAS, MARINE, MARINER)  31 STREET (BLUMPAS, MARINE, MARINER)  32 STREET (BLUMPAS, MARINE, MARINER)  33 STREET (BLUMPAS, MARINE, MARINER)  34 STREET (BLUMPAS, MARINER)  34 STREET (BLUMPAS, MARINER)  35 STREET (BLUMPAS, MARINER)  36 STREET (BLUMPAS, MARINER)  36 STREET (BLUMPAS, MARINER)  36 STREET (BLUMPAS, MARINER)  37 STREET (BLUMPAS, MARINER)  38 STREET (BLUMPAS, MARINER)  38 STREET (BLUMPAS, MARINE)  39 STREET (BLUMPAS, MARINE)  30 STREET (BLUMPAS, MARINER)  31 STREET (BLUMPAS, MARINER)  32 STREET (BLUMPAS, MARINER)  33 STREET (BLUMPAS, MARINER)  34 STREET (BLUMPAS, MARINER)  35 STREET (BLUMPAS, MARINER)  36 STREET (BLUMPAS, MARINER)  37 STREET (BLUMPAS, MARINER)  38 STREET (BLUMPAS, MARINER)  38 STREET (BLUMPAS, MARINER)  39 STREET (BLUMPAS, MARINER)  30 STREET (BLUMPAS, MARINER)  31 STREET (BLUMPAS, MARINER)  31 STREET (BLUMPAS, MARINER)  32 STR	38 14 17.	088 01 08	CROSS VILLE	7.5' Quad (258)
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TO PERATOR 18 brown and office State animal    Committee   Committ			04 STATE 05 ZP CODE Q6 TELEP	HONE NUMBER
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3 TYPE OF OWNERSHIP (Check only)  A PRIVATE B. FEDERAL:  [Aparicy name)  G. STATE D. COUNTY B. MUNICIPAL  A PRIVATE B. FEDERAL:  [Aparicy name)  G. UNKNOWN  4 OWNER/OPERATOR NOTIFICATION ON FILE (Check of that supply)  A RCRA 3001 DATE RECEIVED:  MONTH DAY YEAR  B. UNCONTROLLED WASTE SITE (CERCLA 163 of)  DATE RECEIVED:  MONTH DAY YEAR  BY (Check of that supply)  SY (Check of that supply)  BY (Check of that supply)  C. NONE  W. CHARACTERIZATION OF POTENTIAL HAZARD  BY (Check of that supply)  BY (Check of that supply)  CA PPA  B. EPA CONTRACTOR  C. STATE  D. OTHER CONTRACTOR  CONTRACTOR NAME(S):  CONTRACTOR NAME(S):  CA DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED  O'I/Y Waste (Toxic)  Heavy Metals (Soluble/Toxic/Persistant)  D5 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION  Ground Water (Population / Environ ment)		ling Co.	Highway 1	, c c · · · · /
A. PRIVATE   B. FEDERAL:   (Agency name)   G. UNKNOWN     F. OTHER:   (Shooth)   G. UNKNOWN     A. OWNER/OPERATOR NOTIFICATION ON FILE (Check of that apply)   G. UNKNOWN     A. RCRA 3001 DATE RECEIVED:   (MONTH DAY YEAR   B. UNCONTROLLED WASTE SITE (CERCLA 169 of DATE RECEIVED:   MONTH DAY YEAR   C. NONE   IV. CHARACTERIZATION OF POTENTIAL HAZARD   OI ON SITE INSPECTION   SY (Check of that apply)   G. STATE   D. OTHER CONTRACTOR   C. ONTRACTOR NAME(S):   (Shoothy)   CONTRACTOR NAME(S):   G. ONTRACTOR NAME(S):   G. ONTRACTOR NAME(S):   G. ONTRACTOR NAME(S):   G. ONTRACTOR NAME(S):   C. UNKNOWN   G. OTHER CONTRACTOR NAME(S):   G. ONTRACTOR NAME(S):   G. ONTRACTOR NAME(S):   C. UNKNOWN   G. OTHER CONTRACTOR NAME(S):   G. ONTRACTOR NAME	/ X	<i>,</i>	10 STATE 11 ZIP CODE 12 TELES	UNK
F. OTHER:		L:	□ C. STATE □D.CO	UNTY DE MUNICIPAL
A. RCRA 3001 DATE RECEIVED:   MONTH DAY YEAR   B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED:   MONTH DAY YEAR   C. NONE    V. CHARACTERIZATION OF POTENTIAL HAZARD    ON SITE INSPECTION   BY (Check of that copyly)   B. EPA CONTRACTOR   C. STATE   D. OTHER CONTRACTOR     YES DATE   MONTH DAY YEAR   B. EPA CONTRACTOR   F. OTHER:     ON OTHER CONTRACTOR NAME(S):     OS SITE STATUS (Check one)   OS YEARS OF OPERATION     A. ACTIVE   B. INACTIVE   C. UNKNOWN     OF DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED   O'/Y Waste (Toxic)     Heavy Metals (Soluble/Toxic/Persistant)    OS DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION     Ground Water (Population   Environment     C. STATE   D. OTHER CONTRACTOR     ON THE RECEIVED:   MONTH DAY YEAR     O. OTHER CONTRACTOR     ON THE RECEIVED:   MONTH DAY YEAR     O. OTHER CONTRACTOR     ON THE RECEIVED:   MONTH DAY YEAR     O. OTHER CONTRACTOR     ON THE RECEIVED:   MONTH DAY YEAR     O. OTHER CONTRACTOR     O. OTHER	☐ F. OTHER:	, , <u>, , , , , , , , , , , , , , , , , </u>	G. UNKNOWN	
IV. CHARACTERIZATION OF POTENTIAL HAZARD  DI ON SITE INSPECTION    YES DATE	4 OWNER/OPERATOR NOTIFICATION ON FILE (C		<del></del>	<del></del>
IV. CHARACTERIZATION OF POTENTIAL HAZARD  OI ON SITE INSPECTION  OYES DATE  NON  OCONTRACTOR NAME(S):  CONTRACTOR NAME(S):  CONTRACTOR NAME(S):  OA ACTIVE  OB INACTIVE  OB INACTIVE  OF DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED  O'/Y Waste (Toxic)  Heavy Metals (Soluble/Toxic/Persistant)  OS DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION  Ground Water (Population / Environment)  Contractor name (S):  SOMORY  SEGMENTIC YEAR OF OPERATION  D'/Y Waste (Toxic)  Heavy Metals (Soluble/Toxic/Persistant)  OS DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION  Cround Water (Population / Environment)	☐ A. RCRA 3001 DATE RECEIVED:	H DAY YEAR B. UNCONTR	OLLED WASTE SITE (CERCLA 103 c) DATE RE	CEIVED: C. NONE
A. EPA   B. EPA CONTRACTOR   C. STATE   D. OTHER CONTRACTOR   E. LOCAL HEALTH OFFICIAL   F. OTHER:   SDOOPY				
CONTRACTOR NAME(S):    D2 SITE STATUS (Check one)	TYES DATE	🗆 A. EPA 💢 B.		D. OTHER CONTRACTOR
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04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED  Oily Waste (Toxic)  Heavy Metals (Soluble/Toxic/Persistant)  OS DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT ANDION POPULATION  Ground Water (Population/Environ ment)		03 YEARS OF O		of the course
Ground Water (Population/Environment)	DA DESCRIPTION OF SUBSTANCES SOSSISI V DE	ESENT KNOWN OR ALLEGED		A CHANGOWN
Ground Water (Population / Environment)	Heavy Metals (	Soluble/Toxic/	Persistant)	
V. PRIORITY ASSESSMENT			n /Environment)	

EPA Region 5 Records Ctr.

06 ORGANIZATION

HSCS

02 OF (Agency/Organization)

05 AGENCY

IEPA

03 TELEPHONE NUMBER

08 DATE 04, 85 MONTH DAY YEAR

07 TELEPHONE NUMBER

(217)782-6760

VI. INFORMATION AVAILABLE FROM

04 PERSON RESPONSIBLE FOR ASSESSMENT

Lange

Rich Land
EPAFORM 2070-12 (7-81)

01 CONTACT



Ω EDA

## POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

1. IDENTIFICATION
01 STATE 02 STE NAMES

		AZARDOUS CONDITIONS AND	INCIDENTS	I LIVO	): 1 500 10
L HAZARDOUS CONDITIONS AND IN	ICIDENTS (Continued)				
ot XI. DAMAGE TO FLORA DE NAPRATIVE DESCRIPTION The increased soil sa	near steri	02   OBSERVED (DATE: 'lization of soils ( been noted at ot	1 B >5acres) her simi	potential patribuliar site	alleged ated to
	See FA	bove) (See 05 of	her follow	wine)	
01 D. K. DAMAGE TO FALMA 04 NARRATIVE DESCRIPTION (INClude named	-	02   OBSERVED (DATE:	) C	POTENTIAL	□ ALLEGED
01 C L. CONTAMINATION OF FOOD CHA 04 NARRATIVE DESCRIPTION	AM	02 () OBSERVED (DATE:	) 0	POTENTIAL	□ ALLEGED
01 [] M UNSTABLE CONTAINMENT OF (Sade name Monthly hands from our of Monthly hands from our of Population Potentially AFFECTI	N	02   OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	1 C	POTENTIAL	ALLEGED
01 (. N. DAMAGE TO OFFSITE PROPER 04 NARRATIVE DESCRIPTION	TY	02 ( i OBSERVED (DATE:	) C	POTENTIAL	□ ALLEGED
01 (C.O. CONTAMINATION OF SEWERS, 04 NARRATIVE DESCRIPTION	STORM DRAINS, WWT	Ps 02   OBSERVED (DATE:	1	POTENTIAL	□ ALLEGED
01 E. P. ILLEGAL/UNAUTHORIZED DUM 04 NARRATIVE DESCRIPTION	PING	02 G OBSERVED (DATE:	), C	POTENTIAL	Q ALLEGED
Not description of any other know Denuding of So Crosion in sover	wn potential or all of by brital LL. co	LEGED HAZARDS nes is deemed unties.	leading	cause	of soil
M. TOTAL POPULATION POTENTIAL	LY AFFECTED:	231		· · · · · · · · · · · · · · · · · · ·	
Harris Drilli Hwy 13 Erayville, I	L 6284K	Informa on ERK	ution US (	93 Q (L-4)	ppear
V. SOURCES OF INFORMATION (Cre	specific references, e. g., state fi	iles, zample analysis, reports)		·····	

•		
SEPA	Sec. Sec.	

## POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

	IFICATIO		
OI STATE	02 SITE NUA	ABER 800	700

77 250		•	PART 2 - WAST	E INFORMATION			7 500 70 7
II. WASTES	TATES, QUANTITIES, AN	ND CHARACTER	ISTICS				
	TATES (Check at mai apply)	02 WASTE QUANTI	TITY AT SITE	03 WASTE CHARACTE	ERISTICS (Check all that	acciy:	
SOLIO E SLURRY ""US: DE VIDENTE SE POWDER, FINES E LIQUID TONS		of waste quantities Independent	B CORROS C RADIOAC	CTIVE G FLAN	UBLE I HIGHLY I CTIOUS J EXPLOS MMABLE K REACTI	SIVE	
C SLUDGE		CUBIC YARDS	Unk	D PERSIST	TENT H IGNIT	TABLE LINCOMP	PATIBLE
.: D OTHER	(Specify)	NO OF DRUMS				M NOTA	PPLICABLE
M. WASTE T	YPE						
CATEGORY	SUBSTANCE N	NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE						
OLW	OILY WASTE		Unk	Unk	Grude	0;/	
SOL	SOLVENTS		<u> </u>				
PSD	PESTICIDES						
осс	OTHER ORGANIC CI	HEMICALS	Unk	Unk	Brine	Waste	
IOC	INORGANIC CHEMIC	SALS					
ACD	ACIOS						
BAS	BASES						
MES	HEAVY METALS		Unk	Unk	Brine	Waste	•
IV. HAZARD	OUS SUBSTANCES	Appendix for most frequen	Hly cited CAS Numbers)				
01 CATEGORY	02 SUBSTANCE N	VAME	03 CAS NUMBER	04 STORAGE DISF	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
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V. FEEDSTO	OCKS (See Appendix for CAS Numz	Der\$)	<u> </u>				
CATEGORY	Y 01 FEEDSTOO	CK NAME	02 CAS NUMBER	CATEGORY	01 FEEDS	STOCK NAME	02 CAS NUMBER
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FDS				FOS	i		
FDS		- 10-		FDS			
FDS				FDS			
VI. SOURCE	S OF INFORMATION ICH	e specific references, a g	) , state ries, sample analysis	: reports )			
				02481	İ		

## POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

	IDENT				
0]	STATE	02 S	ITE N	UNGER	nAG
4		$\mathcal{O}\mathcal{C}$	//	<u>xv</u>	107

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS II. HAZARDOUS CONDITIONS AND INCIDENTS X POTENTIAL 01 X A. GROUNDWATER CONTAMINATION 02 (C) OBSERVED (DATE 03 POPULATION POTENTIALLY AFFECTED 04 NARRATIVE DESCRIPTION 02 C OBSERVED (DATE \_ Highly soluble brine waste placed for disposal in unlined lagoon. This practice has impacted private wells at similar facilities. 01 GB. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 02 C OBSERVED (DATE: L. POTENTIAL .: ALLEGED 04 NARRATIVE DESCRIPTION 02 C OBSERVED/DATE: 01 D C. CONTAMINATION OF AIR .. POTENTIAL [] ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION 02 CO OBSERVED (DATE: 01 C D. FIRE/EXPLOSIVE CONDITIONS [ POTENTIAL C ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION 01 TIE DIRECT CONTACT 02 C OBSERVED (DATE: C POTENTIAL ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION 01 X F. CONTAMINATION OF SOIL UNK 02 OBSERVED (DATE: Sarea Potentially affected. UNI 04 NARRATIVE DESCRIPTION

Loss of production (Agland) + damage to soil structure has been noted at similar sites. 04 NARRATIVE DESCRIPTION (See J following) (See 05 Other following 01 MG. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED 02 LI OBSERVED (DATE 04 NARRATIVE DESCRIPTION See A above 01 3 H. WORKER EXPOSURE/INJURY 02 [] OBSERVED (DATE I POTENTIAL . ALLEGED 03 WORKERS POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION 01 1 POPULATION EXPOSURE/INJURY 02 [] OBSERVED (DATE: D POTENTIAL ☐ ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

## EXECUTIVE SUMMARY

This site has been placed in the ERRIS data base as a result of its selection for Phase II evaluation during the federally funded Surface Impoundment Assessment (SIA) study of 1980. During ERRIS placement the operator name and business address were utilized from the SIA which results in deviations from ERRIS for actual site location, Part I section II items 02 through 08 of form 2070-12. This use of operator name and address has also led to one (1) ERRIS listing representing, in actuality, from one (1) to one hundred eight (108) actual brine pits at an equal number of separate locations.

Some considerable effort has been expended to select the site with highest, Phase II SIA, pollution potential where multiple sites are represented by a single ERRIS listing. One must keep in mind that the Phase II SIA represents no more than 7 percent of the brine pits identified in Illinois. Phase I identified more than 3200 pits where Phase II evaluated a random selection of less than 220. One must also maintain a realization that phase II pollution potential was determined by bench top study with little or no actual site visitation or monitoring.

Minimal to no file information exists on this site beyond that contained in Phases I and II of the SIA. There is no direct evidence of hazardous waste disposal at this site beyond the potentially hazardous constituents of Illinois Basin brines, but with only annual inspections by Illinois Mines and Minerals staff relevent to oil production practices and recent backfilling of most brine pits in Illinois, disposal of off site material of unknown nature is possible. A literature review and laboratory analysis of samples from two other sites indicate concern for contamination of groundwater/surface water by Sodium, Sulfate, Chloride etc. (Non-Hazardous Constituents), concern for heavy metals (i.e., Chrome, Vanadium, Barium) and long chain hydrocarbons.

A question arises as to the addressability of the heavy meatals by CERCLA when one considers 40 CFR section 300.6 "Definitions - Federally Permitted Release (i)" and Section 101(10) of CERCLA. The statement "and which are reinjected" seems to allow CERCLA action, but interpretation and clarification by <u>USEPA legal staff seems required</u>. The long chain hydrocarbons would appear to be included in the exclusion given to crude oil and fractions thereof under 40 CFR section 300.6 "Definitions-Hazardous Substance" and 101(14) of CERCLA.

A medium priority has been assigned due to the potential impact of this site on groundwater in a rural area where private wells are generally the sole source for potable water. Similar sites have impacted private wells to a point requiring users to seek alternative sources for drinking water. A site inspection should be scheduled to verify/update owner-operator information and gain more thorough site specific information.

RML:bf/22

